



control solutions

TERACOM

TCW122B-CM Remote IO module



Overview

TCW122B-CM is a remote IO module for environmental monitoring and control. It has 2 digital, 2 analog inputs and 1-Wire interface for up to 2 temperature/humidity sensors.

The controller has 2 relays with normally open and normally closed contacts.

The relays can be activated either remotely or locally. The remote activation includes WEB interface or M2M protocols – SNMP and HTTP API. The local activation is possible from a status of monitored parameter (temperature, humidity, analog voltage and dry contact). Only one parameter can manage the relay at the same time.

For every monitored parameter e-mail and/or SNMP trap can be sent as an alert for previous set alarm conditions.

Applications

- **Remote environmental monitoring** – The device can monitor temperature and humidity in server rooms, data centers, mobile operators facilities room, offices etc.
- **Remote control of electric devices** - With its 2 relays, the device can control independently 2 electric devices. This can be done either by command through the embedded WEB server or by some dedicated application, for example, TCW Control.
- **Home and office alarm systems** – The device can be set up to send e-mail and SNMP traps alerts in case of an alarm condition for temperature/humidity and digital/analog inputs.
- **SCADA systems** - With its supported M2M protocols, the device can be easily integrated into supervisory control and data acquisition systems.

Interfaces



10 Mbit
Ethernet



2x
Digital Inputs



0-60V
2x
Analog Inputs



2x
Relay Outputs



1-Wire
2x
1-Wire Sensors

Basic features

- Embedded WEB server for configuration and control;
- “Dry contact” and “Logic level” modes for digital inputs;
- SNMP v1 support;
- SNMP traps for alarm conditions;
- SMTP without SSL/TLS support;
- Emails on alarm conditions;
- HTTP API commands support;
- XML status report file;
- HTTP and SNMP port changing;
- Remote firmware update.



Short specification

Operating voltage range (including -15/+20% according to IEC 62368-1), VDC	10-14
Maximum current (with both relays ON), mA	200
Weight, g	110
Dimensions, mm	109 x 82 x 32
Operating temperature range, °C	-20 to 55
Operating relative humidity range, %RH	5 to 85 (non-condensing)
Minimum high-level input voltage for digital inputs, VDC	+2.5
Maximum low-level input voltage for digital inputs, VDC	+0.8
Maximum input voltage for digital inputs, VDC	+5.5
Supply voltage for the 1-wire bus (VDD), VDC	5.3 ± 0.2
Maximum output current for the 1-wire bus (VDD), A	0.2
Analog inputs range, VDC	0 to 60
Maximum switchable current for relay contacts, A	3
Maximum switchable voltage for relay contacts, VAC/VDC	30/24

Typical application

Mobile device



Internet



Router



TCW122B-CM



TSH202v2



Supported sensors and detectors



Temperature



Humidity



Smoke Detectors



Door and Window Sensors



AC Voltage Detector



Other Sensors with Relay Output

Software

- TC Monitor
- TCW Control for Android
- TCW Control for iOS
- Third-party software applications